

LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A fluid cooling system, for use in dispensing or distributing a chilled or cooled fluid, comprising a primary heat exchanger system, a secondary heat exchanger system, a first conduit through which fluid to be cooled or chilled is circulated, and a heat transfer agent for transferring cooling energy to the fluid to be chilled circulating in the first conduit, wherein the primary and secondary heat exchanger systems comprise chambers arranged at least partially one inside of another, the chamber of the primary heat exchanger system being separated from the chamber of the secondary heat exchanger system by a wall, and wherein the heat transfer agent circulates between the primary and secondary heat exchanger system chambers.

2. (Previously Presented) A fluid cooling system according to claim 1, wherein the primary and secondary heat exchanger system chambers are arranged substantially one inside of another.

3. (Previously Presented) A fluid cooling system according to claim 1, wherein the primary heat exchanger system chamber is arranged at least partially within the secondary heat exchanger system chamber.

4. (Previously Presented) A fluid cooling system according to claim 1, wherein the primary heat exchanger system chamber is arranged substantially within the secondary heat exchanger system chamber.

5. (Canceled)

6. (Canceled)

7. (Canceled)

8. (Previously Presented) A fluid cooling system according to claim 1, wherein the chamber of the primary heat exchanger system has an outlet for the heat transfer agent which communicates with the chamber of the secondary heat exchanger system.

9. (Previously Presented) A fluid cooling system, for use in dispensing or distributing a chilled or cooled fluid, comprising a primary heat exchanger system, a secondary heat exchanger system, a first conduit through which fluid to be cooled or chilled is circulated, and a heat transfer agent for transferring cooling energy to the fluid to be chilled circulating in the first conduit, wherein the primary and secondary heat exchanger systems are arranged at least partially one inside of another, and wherein the primary heat exchanger system comprises a chamber located substantially within a chamber of the secondary heat exchanger system, and wherein the chamber of the primary heat exchanger system has an outlet for the heat transfer agent which communicates with the chamber of the secondary heat exchanger system, and wherein the outlet of the chamber of the primary heat exchanger system is located in a wall of said chamber that is in contact with the chamber of the secondary heat exchanger system.

10. (Previously Presented) A fluid cooling system according to claim 8, wherein the primary heat exchanger system also comprises a coil that effects cooling thermal exchange with the heat transfer agent in the chamber of said primary heat exchanger system.

11. (Original) A fluid cooling system according to claim 1, wherein the primary heat exchanger system also comprises a thermostat.

12. (Previously Presented) A fluid cooling system, for use in dispensing or distributing a chilled or cooled fluid, comprising a primary heat exchanger system, a secondary heat exchanger system, a first conduit through which fluid to be cooled or chilled is circulated, and a heat transfer agent for transferring cooling energy to the fluid to be chilled circulating in the first conduit, wherein the primary and secondary heat exchanger systems are arranged at least partially one inside of another, and wherein the primary heat exchanger system comprises a chamber located substantially within a chamber of the secondary heat exchanger system, and wherein the chamber of the primary heat exchanger system has an

outlet for the heat transfer agent which communicates with the chamber of the secondary heat exchanger system, and wherein the heat transfer agent circulates from the primary heat exchanger system to the secondary heat exchanger system via the outlet in a wall of the chamber of the primary heat exchanger system.

13. (Previously Presented) A fluid cooling system according to claim 1, wherein the first conduit carrying the fluid to be cooled is located within the chamber of the secondary heat exchanger system.

14. (Previously Presented) A fluid cooling system according to claim 1, wherein the first conduit carrying the fluid to be cooled is arranged as a coil around a peripheral wall of the chamber of the primary heat exchanger system.

15. (Previously Presented) A fluid cooling system, for use in dispensing or distributing a chilled or cooled fluid, comprising a primary heat exchanger system, a secondary heat exchanger system, a first conduit through which fluid to be cooled or chilled is circulated, and a heat transfer agent for transferring cooling energy to the fluid to be chilled circulating in the first conduit, wherein the primary and secondary heat exchanger systems are arranged at least partially one inside of another, and wherein the primary heat exchanger system comprises a chamber located substantially within a chamber of the secondary heat exchanger system, and wherein the chamber of the primary heat exchanger system has an outlet for the heat transfer agent which communicates with the chamber of the secondary heat exchanger system, and wherein cooled heat transfer agent exiting via the outlet into the chamber of the secondary heat exchanger system flows into said chamber at one end of said chamber, over a peripheral surface of the first conduit, and out via an outlet in a wall of the chamber at another end of the chamber of the secondary heat exchange system.

16. (Previously Presented) A fluid cooling system according to claim 1, wherein the fluid cooling system also comprises a reservoir for the heat transfer agent, located adjacent to the chamber of the secondary heat exchanger system.

17. (Original) A fluid cooling system according to claim 16, wherein the reservoir is located above the chamber of the secondary heat exchanger system.

18. (Previously Presented) A fluid cooling system, for use in dispensing or distributing a chilled or cooled fluid, comprising a primary heat exchanger system, a secondary heat exchanger system, a first conduit through which fluid to be cooled or chilled is circulated, and a heat transfer agent for transferring cooling energy to the fluid to be chilled circulating in the first conduit, wherein the primary and secondary heat exchanger systems are arranged at least partially one inside of another, and wherein the secondary heat exchanger system comprises a chamber, and wherein the fluid cooling system also comprises a reservoir for the heat transfer agent, located adjacent to the chamber of the secondary heat exchanger system, and wherein the reservoir comprises a plug comprising an excess pressure-venting membrane.

19. (Original) A fluid cooling system according to claim 16, wherein the reservoir is connected to the outlet of the chamber of the secondary heat exchanger system via a pump.

20. (Previously Presented) A fluid cooling system according to claim 1, wherein the secondary heat exchanger system also comprises a pump for circulating heat transfer agent.

21. (Original) A fluid cooling system according to claim 1, wherein the primary heat exchanger system is arranged at least partially around the secondary heat exchanger system.

22. (Original) A fluid cooling system according to claim 1, wherein the primary heat exchanger system is arranged substantially around the secondary heat exchanger system.

23. (Withdrawn) A fluid cooling system according to claim 1, wherein the primary heat exchanger system comprises a second conduit that extends with and around the

first conduit of the secondary heat exchanger, for at least part of the length of said first conduit.

24. (Withdrawn) A fluid cooling system according to claim 23, wherein the second conduit carries the heat exchange agent originating from the primary heat exchanger.

25. (Withdrawn) A fluid cooling system according to claim 23, wherein the second conduit of the primary heat exchanger is arranged around and along the length the first conduit of the secondary heat exchanger in such a way that sufficient cooling energy is imparted by the heat exchange agent to cool the fluid circulating within conduit.

26. (Withdrawn) A fluid cooling system according to claim 23, wherein the primary heat exchanger system comprises a separate coil and chamber for transferring cooling energy to the heat transfer agent, distant from the second conduit.

27. (Withdrawn) A fluid cooling system according to claim 26, wherein the primary heat exchanger also comprises a thermostat for regulating the temperature of the heat transfer agent, and hence the liquid to be cooled.

28. (Withdrawn) A fluid cooling system according to claim 23, wherein the primary heat exchanger system also comprises a pump connected to a chamber of the primary heat exchanger system.

29. (Withdrawn) A fluid cooling system according to claim 28, wherein the chamber of the primary heat exchanger system is connected to the second conduit via an outlet leading from said chamber to said second conduit.

30. (Withdrawn) A fluid cooling system according to claim 23, wherein the second conduit of the primary heat exchanger system extends coaxially along substantially the whole of the length of the first conduit of the secondary heat exchanger system.

31. (Withdrawn) A fluid cooling system according to claim 23, wherein the second conduit of the primary heat exchanger system is coiled around the periphery of the first conduit of the secondary heat exchanger system.

32. (Withdrawn) A fluid cooling system according to claim 23, wherein the second conduit is arranged around the first conduit in one or more sections, such that heat transfer would occur from conduit to conduit at one or more non-contiguous regions or zones along the length of conduit, but in a manner sufficient to effect desired cooling of the fluid within conduit.

33. (Withdrawn) A fluid cooling system according to claim 23, wherein the primary heat exchanger system also comprises a heat transfer agent recovery tank.

34. (Withdrawn) A fluid cooling system according to claim 33, wherein the heat transfer agent recovery tank is connected to the pump.

35. (Withdrawn) A fluid cooling system according to claim 33, wherein the second conduit is also connected to the heat transfer agent recovery tank.

36. (Withdrawn) A fluid cooling system according to claim 35, wherein the system also comprises a switch connected to said second conduit to effect recovery of the heat transfer agent into the recovery tank.

37. (Original) A fluid cooling system according to claim 1, wherein the fluid to be cooled is a liquid.

38. (Original) A fluid cooling system according to claim 1, wherein the fluid is a liquid and comprises non-alcoholic beverages, such as fruit juice, water, drinking water, and alcoholic beverages, such as beer, wine, and spirit liquors.

39. (Original) A fluid cooling system according to claim 1, wherein the fluid to be cooled is a gas.

40. (Original) A fluid cooling system according to claim 1, wherein the fluid is a gas and comprises air, oxygen, nitrogen, helium, hydrogen, nitrous oxide.

41. (Original) A fluid cooling system according to claim 1, wherein the first conduit is sterilized periodically.

42. (Previously Presented) A cooled fluid dispenser comprising a source of fluid to be cooled and dispensed, and at least one dispenser tap, wherein the dispenser incorporates a fluid cooling system according to claim 1.

43. (Original) A cooled fluid dispenser according to claim 42, wherein the dispenser further comprises another dispensing tap connected to the source of fluid independently from said fluid cooling system.

44. (Original) A cooled fluid dispenser according to claim 42, wherein the source of fluid to be cooled and dispensed is removable.

45. (Original) A cooled fluid dispenser according to claim 42, wherein the removable source of fluid is selected from the group consisting of a pressurized or non-pressurized bottle, canister, and tank.

Claims 46-54 (Canceled)